

**PROCEEDINGS**  
OF THE  
CALIFORNIA ACADEMY OF SCIENCES  
FOURTH SERIES

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May 29, 1925

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**XXVII**

**REPORT OF THE PRESIDENT OF THE ACADEMY  
FOR THE YEAR 1924.**

By C. E. GRUNSKY  
*President of the Academy*

The California Academy of Sciences has completed another successful year. While no events of outstanding importance are to be noted, the regular work of the various departments has been carried forward and the record of the Academy for continued valuable contribution to scientific research has been fully sustained as will appear from the reports of the Director of the Museum and of the curators.

Of statistical information the following is to be noted:

The membership is now at somewhat over 1100. The record for the year 1924 shows:

Members on January 1, 1924.....	1054
New members, during 1924.....	104
Total .....	1158
Deceased in 1924.....	21
Resigned .....	13
Dropped for non-payment of dues.....	17
Total .....	51
Members on January 1, 1925.....	1107

May 29, 1925

The membership consists of:

Patrons .....	13
Honorary members .....	24
Life members .....	83
Fellows .....	23
Members .....	964
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Total .....	1107

The Academy carries on its list of patrons the following names:

*Living*

Mr. George C. Beckley	Mr. A. Kingsley Macomber
Mr. William B. Bourn	Mr. John W. Mailliard
Mr. William H. Crocker	Mr. Joseph Mailliard
Mr. Peter F. Dunne	Mr. M. Hall McAllister
Dr. Barton Warren Evermann	Mr. Ogden Mills
Mr. Herbert Fleishhacker	Mr. William C. Van Antwerp
Mr. Joseph D. Grant	Dr. E. C. Van Dyke

*Deceased*

Mr. William Alvord	Mr. James Lick
Mr. Charles Crocker	Mr. Alexander F. Morrison
Mr. John W. Hendrie	Mr. Amariah Pierce
Mr. Henry M. Holbrook	Mr. Ignatz Steinhart
Mrs. Charlotte Hosmer	Dr. John Van Denburgh

Among those whom the Academy has lost during the year there were several whose services to the public and to the Academy were more than ordinarily notable. Without attempting even an indication of service and achievement by those in the list of deceased it will be noted that this list includes among the long-time members of the Academy Mr. A. S. Baldwin, prominent in the business affairs and the development activities of San Francisco; Mr. Harrison Barto who during many years was one of the Academy's most active members; Mr. John E. Behan, who was at the time of his death Secretary of the Spring Valley Water Company and who had been Secretary of the Board of Supervisors of San Francisco; Hon. Julius Kahn, who served his country well during a long term in Congress; Mr. Willis Polk, the distinguished architect; Mr. A. B. Spreckels, a member of the Park Commission and

patron of art; Dr. John Van Denburgh, the Academy's Curator of the Department of Herpetology whose untimely passing has deprived the world of a scientist, who probably was better informed on reptiles than any other and whose passing has left a gap in the Academy's staff difficult to fill; and so on through the list which follows:

Baldwin, A. S.....	Member.....	February 27, 1924
Barto, Harrison .....	Member.....	January 3, 1924
Behan, John E.....	Member.....	June 20, 1924
Bennett, Robert H.....	Member.....	November 18, 1924
Burk, Dr. Frederick.....	Member.....	June 12, 1924
Conrad, John George.....	Life.....	August 25, 1924
Drew, Frank C.....	Member.....	May 17, 1924
Ellis, Samuel L. N.....	Member.....	March 11, 1924
Hellmann, Anthony C.....	Member.....	March 11, 1924
Kahn, Hon. Julius.....	Member.....	December 18, 1924
Knox, Mrs. C. C. Probert.....	Member.....	January 24, 1924
Larkin, Dr. Edgar Lucien.....	Member.....	October 11, 1924
Leonard, Charles L.....	Member.....	January 15, 1924
Lovett, A. L.....	Member.....	April 25, 1924
Polk, Willis .....	Member.....	September 10, 1924
Smith, Christian W.....	Member.....	April 12, 1924
Spreckels, Adolph B.....	Life.....	June 28, 1924
Van Denburgh, Dr. John.....	Life.....	October 24, 1924
Vierra, D. C.....	Member.....	August 6, 1924
Woodward, Dr. Robert S.....	Honorary.....	June 29, 1924
Worden, Clinton E.....	Member.....	July 23, 1924

In the year 1924 eleven free lectures were delivered at the stated meetings of the Academy, as follows:

JANUARY 2.	The Red History of Black Haiti, illustrated, by Mr. M. E. Beall, Berkeley, California.
MARCH 5.	The Wood Duck in California, illustrated, by Mr. Joseph Dixon, Economic Mammalogist, Museum of Vertebrate Zoology.
APRIL 2.	The Significance of the Albedo and of the Color of the Planets, by Dr. Marsden Manson, San Francisco, California.
MAY 7.	Some Naturalists I have known, illustrated, by Dr. J. Sterling Kingsley, Berkeley, California.
JUNE 4.	How Intelligent is the Beaver? Illustrated, by Dr. William E. Ritter, University of California.

- JULY 2. A Naturalist in Japan and Siberia, illustrated, by Dr. T. D. A. Cockerell, Professor of Zoology, University of Colorado, Boulder, Colorado.
- AUGUST 6. The Foundering Islands of the Pacific. Studies of Subsiding Archipelagoes. Illustrated, by Mr. Vaughan MacCaughy, Associate Editor, Sierra Educational News, San Francisco, California.
- SEPTEMBER 3. The Pan-Pacific Food Conservation Conference at Honolulu, July 31 to August 14, 1924, by Dr. Barton Warren Evermann, Director, California Academy of Sciences.
- OCTOBER 1. The California Redwoods, by Mr. Roy W. Cloud, Superintendent of Schools, San Mateo County, California.
- NOVEMBER 5. Some little known Relationships of Insects to Man, illustrated, by Professor Stanley B. Freeborn, Assistant Professor of Entomology, University of California.
- DECEMBER 3. Camping and Climbing in the High Sierra, illustrated, by Mr. Francis P. Farquhar, San Francisco, California.

The Sunday afternoon lectures at the Museum building were continued throughout the year except during the vacation months of summer. Despite the inadequacy of the temporary lecture room, the attendance at these lectures has been satisfactory. These lectures have included the following:

- JANUARY 6. Life of the Brine Pools, by Dr. E. G. Martin, Professor of Physiology, Stanford University.
- JANUARY 13. The New Order in Turkey, illustrated, by Prof. E. G. Mears, Professor of Economics, Stanford University.
- JANUARY 20. The Laws of Heredity, illustrated, by Dr. L. L. Burlingame, Associate Professor of Botany, Stanford University.
- JANUARY 27. Heredity and Plant Breeding, illustrated, by Dr. E. B. Babcock, Professor of Genetics, University of California.
- FEBRUARY 3. Heredity in Man, illustrated, by Dr. L. L. Burlingame, Associate Professor of Botany, Stanford University.
- FEBRUARY 10. The Evolution of Man, illustrated, by Dr. Harold Heath, Professor of Zoology, Stanford University.
- FEBRUARY 17. The Present Status of Darwinism, illustrated, by Dr. S. J. Holmes, Professor of Zoology, University of California.

- FEBRUARY 24. The Trend of the Race, by Dr. S. J. Holmes, Professor of Zoology, University of California.
- MARCH 2. The Latest Results respecting the Theory of Relativity, by Captain T. J. J. See, Professor of Mathematics, United States Navy.
- MARCH 9. How Plants Migrate, illustrated with maps, by Dr. Douglas H. Campbell, Professor of Botany, Stanford University.
- MARCH 16. Plant Distribution in the United States, illustrated with maps, by Dr. Douglas H. Campbell, Professor of Botany, Stanford University.
- MARCH 23. Insect Adaptations, illustrated, by Dr. Herbert Osborn, Professor of Zoology, Ohio State University, Columbus, Ohio.
- MARCH 30. Spring Flowers in California, illustrated, by Miss Alice Eastwood, Curator, Department of Botany, California Academy of Sciences, San Francisco, California.
- APRIL 5. How Birds show their Feelings, illustrated, by Mr. Clinton G. Abbott, Director, San Diego Society of Natural History, San Diego, California.
- APRIL 13. Color Changes in the Skin of the Chameleon (*Anolis carolinensis*), by Dr. Charles von Geldern, Sacramento, California.
- APRIL 20. Coffee in its Preparation, illustrated, by Mr. C. B. Las-treto, San Francisco, California.
- APRIL 27. Our Common Amphibians, illustrated, by Prof. Tracy I. Storer, Assistant Professor of Zoology, University of California.
- MAY 4. Uncle Sam's Weather Bureau, by Mr. E. A. Beals, Meteorologist, U. S. Weather Bureau, San Francisco, California.
- MAY 11. Yosemite, California's First National Playground, illustrated, by Mr. W. B. Lewis, Superintendent, Yosemite National Park.
- MAY 18. The Red Story of Black Haiti, illustrated, by Mr. M. E. Beall, Berkeley, California.
- MAY 25. The Hetch-Hetchy Valley, illustrated, by Dr. C. E. Grunsky, President of the California Academy of Sciences, and President of the American Society of Civil Engineers.

- JUNE 29. The World War against Insects, illustrated, by Dr. L. O. Howard, Chief, Bureau of Entomology, Department of Agriculture, Washington, D. C.
- OCTOBER 5. The Factors in Development: Heredity; Variation; Selection; Isolation; Running the Gauntlet of Life, by Dr. David Starr Jordan, Chancellor of Stanford University.
- OCTOBER 12. Man's Place in Nature; his Origin and Development, Dr. David Starr Jordan, Chancellor of Stanford University.
- OCTOBER 19. The Master Key to the Universe and the Search for it, by Dr. David Starr Jordan, Chancellor of Stanford University.
- OCTOBER 26. Science and Sciosophy; Organized Knowledge versus Systematized Ignorance, by Dr. David Starr Jordan, Chancellor of Stanford University.
- NOVEMBER 2. Travel and Big Game Hunting in Abyssinia, Kenya Colony and Tanganyika Protectorate, illustrated, by Major Norman B. Livermore, San Francisco, California.
- NOVEMBER 9. Experiences of an Entomologist in the Orient, illustrated, by Dr. E. C. Van Dyke, Professor of Entomology, University of California.
- NOVEMBER 16. *Symposium: Kindergarten-Primary Education: Principles of Early Childhood Education*, by Miss Julia Letheld Hahn, Primary Supervisor, San Francisco Public Schools.
- Kindergarten Materials and Organization, by Mrs. Ethel Roth, Kindergarten teacher, San Francisco Public Schools.
- Primary materials and Organization, by Miss Lena Hanson and Miss Lillian Hill, Primary teachers, San Francisco Public Schools.
- NOVEMBER 23. The purposes of a Modern High School, by Mr. J. E. Addicott, Principal Polytechnic High School, San Francisco.
- NOVEMBER 30. Changing Ideals in Education, by Dr. Tully C. Knoles, President, College of the Pacific, Stockton, California.
- DECEMBER 7. The College-Institution or Community, by Dr. Aurelia Henry Reinhardt, President of Mills College, Oakland, Calif.

DECEMBER 14. The Place of the Public Schools in the Program of San Francisco, by Mr. J. M. Gwinn, Superintendent of Schools, San Francisco.

DECEMBER 28. What's the Matter with our Public Schools?, by Charles Albert Adams, Esq., Attorney, San Francisco.

The continued contribution of the Academy to the advancement of science is evidenced by the following list of publications issued by the Academy in 1924:

FOURTH SERIES OF THE PROCEEDINGS

Vol. XII, No. 27, pp. 529-560—THE BEES (II) [OF THE ISLANDS IN THE GULF OF CALIFORNIA], by T. D. A. Cockerell.

Vol. XII, No. 28, pp. 561-694—THE SPIDER FAUNA OF THE SHORES AND ISLANDS OF THE GULF OF CALIFORNIA, by Ralph V. Chamberlin.

Vol. XII, No. 29, pp. 695-949—NEW MARINE ALGÆ FROM THE GULF OF CALIFORNIA, by William Albert Setchell and Nathaniel Lyon Gardner.

Vol. XII, No. 30, pp. 951-1218—THE BOTANY (THE VASCULAR PLANTS), by Ivan Murray Johnston.

Vol. XII, No. 31, pp. 1219-1222—A NEW MOUSE (*Peromyscus slevini*) FROM THE GULF OF CALIFORNIA, by Joseph Mailliard.

Vol. XII, No. 32, pp. 1223-1231—REPORT OF THE PRESIDENT OF THE ACADEMY FOR THE YEAR 1923, by C. E. Grunsky.

Vol. XII, No. 33, pp. 1232-1285—REPORT OF THE DIRECTOR OF THE MUSEUM FOR THE YEAR 1923, by Baiton Warren Evermann.

Vol. XIII, No. 7, pp. 131-136—FRESHWATER MOLLUSKS OF EAGLE LAKE, CALIFORNIA, by G. Dallas Hanna.

Vol. XIII, No. 8, pp. 137-145—NOTES ON SOME ECHINOIDS FROM THE SAN RAFAEL AND TUXPAM BEDS OF THE TAMPICO REGION, MEXICO, by Merle C. Israelsky.

Vol. XIII, No. 9, pp. 147-149—DESCRIPTION OF A NEW GENUS AND SPECIES OF FRESHWATER GASTROPOD MOLLUSK (*Scaez petrolia*) FROM THE ETCHEGOIN, PLIOCENE OF CALIFORNIA, by G. D. Hanna and E. G. Gaylord.

Vol. XIII, No. 10, pp. 151-186—RECTIFICATIONS OF NOMENCLATURE, by G. Dallas Hanna.

Vol. XIII, No. 11, pp. 187-188—VOGDESELLA, A NEW GENUS-NAME FOR A PALEOZOIC CRUSTACEAN, by Fred Baker.

- Vol. XIII, No. 12, pp. 189-230—NOTES ON THE HERPETOLOGY OF NEW MEXICO, WITH A LIST OF SPECIES KNOWN FROM THAT STATE, by John Van Denburgh.
- Vol. XIII, No. 13, pp. 231-236—THE GENUS ERYTHRONEURA IN CALIFORNIA (HOMOPTERA), by E. P. Van Duzee.
- Vol. XIII, No. 14, pp. 237-241—A NEW SPECIES OF WHALE FROM THE TYPE LOCALITY OF THE MONTEREY GROUP, by G. Dallas Hanna and Mary E. McLellan.
- Vol. XIII, No. 15, pp. 243-246—CONTRIBUTIONS TO ORIENTAL HERPETOLOGY I. SAKHALIN, by John Van Denburgh.
- Vol. XIII, No. 16, pp. 247-248—ON LATICAUDA SCHISTORHYNCHUS AND LATICAUDA SEMIFASCIATA, by John Van Denburgh.
- Vol. XIII, No. 17, pp. 249-259—NEW MELYRIDES FROM SOUTHEASTERN CALIFORNIA, by Frank E. Blaisdell, Sr.
- Vol. XIII, No. 18, pp. 261-303—THE OPHIURANS OF MONTEREY BAY, by Raoul Michel May.
- Vol. XIII, No. 19, pp. 305-324—PARASITIC BEES (EPEOLINÆ AND MELECTINÆ) IN THE COLLECTION OF THE CALIFORNIA ACADEMY OF SCIENCES, by T. D. A. Cockerell and Grace Sandhouse.
- Vol. XIII, No. 20, pp. 325-332—CHRYSIDIDÆ FROM LOWER CALIFORNIA, by Leland H. Taylor.
- Vol. XIII, No. 21, pp. 333-339—THE BEES (III) [OF THE ISLANDS OF THE GULF OF CALIFORNIA], by Grace Sandhouse and T. D. A. Cockerell.
- Vol. XIII, No. 22, pp. 341-372—BEES OF THE GENUS OSMIA IN THE COLLECTION OF THE CALIFORNIA ACADEMY OF SCIENCES, by Grace Adelbert Sandhouse.
- Vol. XIII, No. 23, pp. 373-379—CRUSTACEA (BRACHYURA) [OF THE GULF OF CALIFORNIA EXPEDITION], by Mary J. Rathbun.
- Vol. XIII, No. 24, pp. 381-388—CRUSTACEA (MARCURRA AND ANOMURA) [OF THE GULF OF CALIFORNIA EXPEDITION], by Waldo L. Schmitt.
- Vol. XIII, No. 25, pp. 389-420—OPISTHOBRANCHIATE MOLLUSCA, by Frank M. MacFarland.
- Vol. XIII, No. 26, pp. 421-431—NOTES ON WEST AMERICAN WHALE BARNACLES, by Ira E. Cornwall.

Although the Academy's resources are by no means adequate to provide the additional space for natural history exhibits which is sorely needed, it is, nevertheless, a fact that its ma-



terial affairs are otherwise in a satisfactory condition. It will suffice in this connection to indicate the appreciation of its Market Street property. The land on which the Academy erected the Commercial Building was valued in 1909 at \$544,000. A reappraisal in 1919 placed its value at \$580,000. It was again appraised last year. This last appraisal showing an advance in value to \$820,000.

The Academy's indebtedness of \$300,000 made at the time of the erection of the Commercial Building has been further reduced by \$10,000 during the past year bringing it down to \$250,000 at the beginning of the current year.

Among the notable accessions to the Academy's museum there is to be noted a collection of moths and butterflies from the Henry M. Holbrook estate together with the sum of \$2000 for their installation and preservation.

The presentation by Dr. E. C. Van Dyke of his entire collection of beetles to the museum of the Academy calls for special mention. This collection, embracing about 100,000 specimens, is one of the most important collections of North American Coleoptera. It is especially rich in west coast species, and consists largely of carefully studied material with many types of new species, and it at once places the Academy collection in that order of insects in a position of primary importance.

A magnificent specimen of a gorilla (*Gorilla berengeri*) was received in July for exhibition and installed at the expense of Mr. A. Kingsley Macomber.

There were many other accessions to the material in the various research departments contributed by friends of the Academy. These are greatly appreciated as they aid materially in extending the Academy's usefulness.

The management of the Steinhart Aquarium has presented no unusual difficulty. It has been kept open to the public uninterruptedly and has been extremely well attended. The Academy's requests for funds for the operation of the Aquarium during the current fiscal year were not fully met by the Board of Supervisors. The sum of \$40,000 was allowed while

\$44,000 had been requested. The expense of operation has been kept within the smaller allotment but not all could be done in the matter of collecting new specimens and replenishing stock which had been hoped for. While it appears probable that the City would meet any reasonable demand for this purpose above the sum named in the City budget, it has not been deemed wise to exceed the City's allowance. It will be regrettable if the funds which the City hereafter provides are not fully adequate to meet reasonable requirements.

The hearty support which has been accorded to the officers of the Academy by its membership and the extent to which the public avails itself of the opportunities which the Academy provides for enjoyment and to acquire information on natural science subjects, is a full reward for their efforts.

An account of the work which has been done in the various departments will appear in the reports of the Director and of the several curators.